PWD 17 — 1st and final Bill — Original/Duplicate/Triplicate

NO — **CONTRACT CERTIFICATE** — Reference paras 158 & 170

Division: Yelahanka — Sub division: Yelahanka New Town — Date

Bills received No — Date — Sub-divisional / Divisional — Cash book vr No — Date

Sheduled Docket No — Head of account P-0541

Name of work(as per sanctioned estimate) -

NAME OF WORK :Drilling of borewells and providing pipeline in ward no 03

Work Code:003-18-000001

Name of contractor and full address :-

Technical Manager (west)

Reference to agreement No :- 93 — **Estimated cost : 50.00** — **Work order No :12, dt:06/09/2017**

Certified that the measurments were taken by me on 19/10/17 and recorded on pages 466128 to 466147 of measurment book No 4662 and the work is satisfactorily executed by the contractor.

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Asst Engineer

Certified that the measurments were taken by me on 19/10/17 and recorded correct The work is satisfactorily executed Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon A formal agreement signed and executed by the contractor is recorded in divisional office

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%---------		
3) Balance---	1st and Final	4994976:00
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional Cash book vr No------dated------S D No------Amount adjusted towards cash advance recovery of	PSD	324673:00
b) Cost of payments/stores or other materials supplied now made recovery of	CGST	49950:00
Amount paid on this bill by cheque/cash	SGST	49950:00
	IT	99900:00
Total	LC	49950:00
5) Balance being unpaid value of work done held in reserve	CBF	4994:00
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor.	T.D	4415559:00
UN ADJUSTED ITEMS		
8) Advance to contractor for materials to site(as detailed within)	NET	4415559:00
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Received Rs----------(in words)----------

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

For use in the Executive Engineer's office----------

of payment as per memorandum (in final settlement of all demand)

Witness
1)
2)

Reciept Stamp

Audited & Admitted for Rs 4994976:00

4415559:00
579417:00

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

paid by me cheque No dated

Cash Rs

Date — Initials of officer making payment

Date — Executive Engineer

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site , engaging techinical personal and labour required etc., as per Specification and	Each BW			6.00	1882.00	11292.00	6.00	11292.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr					0.00		
	0 to 50 m				300.00	306.00	91800.00	300.00	91800.00
	50 to 100 m				300.00	400.00	120000.00	300.00	120000.00
	100 to 150 m				300.00	445.00	133500.00	300.00	133500.00
	150 to 200 m				300.00	470.00	141000.00	300.00	141000.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
	200 to 250 m				300.00	544.00	163200.00	300.00	163200.00
	250 to 300 m				300.00	583.00	174900.00	300.00	174900.00
	300 to 350 m				300.00	622.00	186600.00	300.00	186600.00
3	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270 2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270 2001 and the other end with screwed pipes ISI Marking weighing 25 10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty P. iii, I No. 84 PRED SR 2012-13	Rmtr			299.8		186475		186475
					450.00	1325.00	596250.00	450.00	596250.00
4	Providing 250mm dia PVC Pipe 6kg/cm BWSSB SR 2014-15 Page No. 53, Item No. 1(ii)	Rmtr			108.00	1100.00	118800.00	108.00	118800.00
5	Providing and fixing 160mm Borewell Cap P. iii, I No. 85 PRED SR 2012-13	Each			6.00	100.00	600.00	6.00	600.00

Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
		Qty	Cost	Qty	Rate	Amount	Qty	Cost
6 Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH, 50 Hz 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc complete The pump and motor shall form an integral unit with all the required fittings 12 50 HP 25 stage ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD**	No			7.00	60400.00	422800.00	7.00	422800.00
12 5 HP 25 Stage								
7 KSRB13-3.6 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications Specification No KBS 13 2 14 / 13 6 **Page No. 90, Item No. 13.15 PWD SR 2016-17**	m			2329.00 2328	457.92	1066495.68 1066032	2329.00 2328	1066495.68 1066032

No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694 1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr			4910.00	126.70	622097.00	4910.00	622097.00
9	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap Cable clips with bolts, nuts, valves guages etc , involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year 2008-09)				7.00	3000.00	21000.00	7.00	21000.00
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc , **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each			7.00	302.00	2114.00	7.00	2114.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
11	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq mm wire armoured) confirming to IS-3975 1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1 1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr			196.00	140.40	27518.40	196.00	27518.40
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr			196.00	10.80	2116.80	196.00	2116.80
13	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr			161.00	85.00	13685.00	161.00	13685.00
14	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr			28.00	345.00	9660.00	28.00	9660.00
	40mm dia GI pipe								

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
15	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No			7.00	280.00	1960.00	7.00	1960.00
	16Sqmm								
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I C cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia. **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No			7.00	2727.00	19089.00	7.00	19089.00
17	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers **P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No			42.00	180.00	7560.00	42.00	7560.00
	32 Amps								

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
18	KSRB13-7.1-4 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No KBS 13.2.10 / 13.13 **Page No. 93, Item No. 13.55, PWD SR 2016-17**	Nos			7.00	1585.76	11100.32	7.00	11100.32
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete - **for 50mm dia Page No. 95, Item No. 13.81.3 PWD SR 2016-17**	Each			7.00	227.90	1595.30	7.00	1595.30
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete **P. XXXVII PWD SR 2016-17**	No			28.00	104.30	2920.40	28.00	2920.40
21	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 **5-32Amps**	No			7.00	1547.00	10829.00	7.00	10829.00
22	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on	No			7.00	10000.00	70000.00	7.00	70000.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
23	Supplying fully automatic	No.			7.00	6583.00	46081.00	7.00	46081.00
24	Earth work excavation for	Cum			840.00	40.28	33835.20	840.00	33835.20
25	In ordinary rock (not requiring blasting)	Cum			240.00	53.00	12720.00	240.00	12720.00
26	Providing and installing at site of works P.V.C Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe atround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc , **Page No.14 item No.3.4.2 b PRED SR 2012-13.**	Rmtr			2000 00	123 00	246000.00	2000.00	246000.00
	75 mm dia b KSC PVC pipe								
27	Providing murrum or sand bedding for the pipeline including watering and consolidation by punners etc complete with all lead and lift (In black cotton soil and rock reaches).**P.No 3/item No1.90/PRED SR 2012-2013**	Cum			180 00	83 74	15073.20	180.00	15073.20
28	Refilling the basement and pipeline treanches with secleted available eartne for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1 6 / PRED SR 2012-13**	Cum			900 00	61 00	54900.00	900.00	54900.00

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement Qty	Previous Measurement Cost	Present Measurement Qty	Present Measurement Rate	Present Measurement Amount	Total Up to date Qty	Total Up to date Cost
25	KSRB13-6 3-7 Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **65mm nominal bore** including cost of all materials, labour and HOM of equipments with all leads complete as per specifications Specification No.KBS 13 2 6 / 13 3. **P. No.92 / I. No. 13.38 PWD SR 2016-17**	Each			32 00	2729.50	87344.00	32.00	87344.00
						TOTAL	~~4546436.30~~ 4545850		~~4546436.30~~
						KRIDL Charges 9%	~~409179.27~~ 409126		~~409179.27~~
						BESCOM	~~40000.00~~ 40000		~~40000.00~~
						Grand TOTAL	~~4995615.57~~ 4994976:00		~~4995615.57~~

Ward No 03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore